IN THE CLAIMS:

Please delete claims 9-12 and insert in lieu thereof new claims 13-24.

13. An improved solid rod like basic half-pin implant for external fixator systems, intended for being driven at right angles to bone surface; comprising,

a first end, with a thread at said first end; and a second end, with a means for gripping;

an intercalated hollow dome shaped head with an open base or equatorial area, with convexity or apex away from the said first end, having a blunt rim at base for contact with bone surface, the contact being interrupted by the presence of a blunt wavy margin of the rim, the said head being integral to said rod to disallow any micro-movement between said rod and said head;

the device being fully threaded from said first end to said head; and

the device having an extended rod length towards said second end beyond the said head as a means of driving the device, and also for securing it to an external fixator construct.

14. The device of claim 13 in which the said head is hollow conical, with apex towards the said second end, with an open base and a blunt rim with wavy margin for load on bone surface.

15. The device of claim 13 in which the said basal rim is blunt beaded, instead of wavy.

16. The device of claim 14, in which the said basal rim is blunt beaded, instead of wavy.

17. The device of claim 13 in which the threaded portion is hydroxyapatite coated.

18. The device of claim 14 in which the threaded portion is hydroxyapatite coated.

19. The device of claim 15 in which the threaded portion is hydroxyapatite coated.

20. The device of claim 16 in which the threaded portion is hydroxyapatite coated.

21. The device of claim 13 in which:

the said intercalated head is spherical for a concentric and broad contact with a matching countersunk bone surface, at whichever angle the device subtends with the said surface; also being capable of being seated concentrically on a washer with a matching excavation on the head side face of the washer, at any angle subtended by said device; and

the thread at said first end being short, leaving a smooth screw shaft between said thread and said head.

22. The device of claim 21 being canalized throughout, from said first end to said second end, to allow a guide wire to be passed from said first end to said second end, and from said second end to said first end.

23. The device of claim 21 with an intercalated spherical head, which can be shifted up and down the said device and fixed to the said shaft by means of a transverse screw in the said head being driven into a hole in the said shaft, such holes having been provided at intervals along the said shaft.

24. The device of claim 22 in which the said head is capable of being shifted and fixed in a desired position along the said shaft by means of a transverse screw in head being driven into one of the serial holes provided in the said shaft.